

Maintain Your Skills

Mixed Review Determine the slope of the line that contains the given points. (Lesson 3-3)

56. $A(0, 6), B(4, 0)$

57. $G(8, 1), H(8, -6)$

58. $E(6, 3), F(-6, 3)$

In the figure, $m\angle 1 = 58$, $m\angle 2 = 47$, and $m\angle 3 = 26$.
Find the measure of each angle. (Lesson 3-2)

59. $\angle 7$

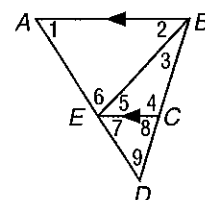
60. $\angle 5$

61. $\angle 6$

62. $\angle 4$

63. $\angle 8$

64. $\angle 9$

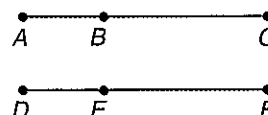


65. **PROOF** Write a two-column proof. (Lesson 2-6)

Given: $AC = DF$

$AB = DE$

Prove: $BC = EF$



Find the perimeter of $\triangle ABC$ to the nearest hundredth, given the coordinates of its vertices. (Lesson 1-6)

66. $A(10, -6), B(-2, -8), C(-5, -7)$

67. $A(-3, 2), B(2, -9), C(0, -10)$

Getting Ready for the Next Lesson

PREREQUISITE SKILL In the figure at the right, lines s and t are intersected by the transversal m . Name the pairs of angles that meet each description.

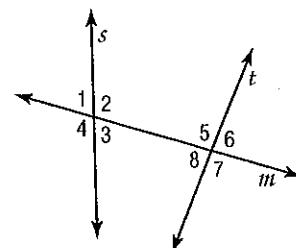
(To review **angles formed by two lines and a transversal**, see Lesson 3-1.)

68. consecutive interior angles

69. corresponding angles

70. alternate exterior angles

71. alternate interior angles



Practice Quiz 2

Lessons 3-3 and 3-4

Determine whether \overline{AB} and \overline{CD} are parallel, perpendicular, or neither. (Lesson 3-3)

1. $A(3, -1), B(6, 1), C(-2, -2), D(2, 4)$

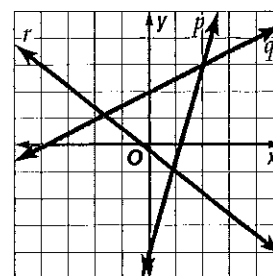
2. $A(-3, -11), B(3, 13), C(0, -6), D(8, -8)$

For Exercises 3-8, refer to the graph at the right. Find the slope of each line. (Lesson 3-3)

3. p

4. a line parallel to q

5. a line perpendicular to r



Write an equation in slope-intercept form for each line. (Lesson 3-4)

6. q

7. parallel to r , contains $(-1, 4)$

8. perpendicular to p , contains $(0, 0)$

Write an equation in point-slope form for the line that satisfies the given condition. (Lesson 3-4)

9. parallel to $y = -\frac{1}{4}x + 2$, contains $(5, -8)$

10. perpendicular to $y = -3$, contains $(-4, -4)$